

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO	). F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,867	10/701,867 11/04/2003		Toru Takumori	03-678	6720
34704	7590	06/22/2005		EXAM	INER
	AN & LAF EL STREE	POINTE, P.C.	RODRIGUEZ, SAUL		
SUITE 12		1		ART UNIT	PAPER NUMBER
NEW HA	NEW HAVEN, CT 06510			3681	

DATE MAILED: 06/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTOL-326 (Rev. 1-04)  Office A	Action Summary	Part of Paper No./Mail Date 06122005			
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date      Select and Trademark Office.	· —				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper	No(s)/Mail Date of Informal Patent Application (PTO-152)			
1) Notice of References Cited (PTO-892)		ew Summary (PTO-413)			
Attachment(s)					
* See the attached detailed Office action for a lis	t of the certified copies	not received.			
· application from the International Burea	, , , , , , , , , , , , , , , , , , , ,				
3. Copies of the certified copies of the price	ority documents have be	een received in this National Stage			
2. Certified copies of the priority documen		n Application No			
1. Certified copies of the priority documen	nts have been received.				
a) ⊠ All b) □ Some * c) □ None of:		3 (-) (-) (-)			
12)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.(	C. § 119(a)-(d) or (f).			
Priority under 35 U.S.C. § 119					
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attac	ched Office Action or form PTO-152.			
Replacement drawing sheet(s) including the correct	•				
Applicant may not request that any objection to the	e drawing(s) be held in abe	eyance. See 37 CFR 1.85(a).			
10) The drawing(s) filed on is/are: a) ac		to by the Examiner.			
9)☐ The specification is objected to by the Examin	er.				
Application Papers					
o/ Claim(s) are subject to restriction and/	or election requirement.				
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
6)⊠ Claim(s) <u>1-9</u> is/are rejected.					
5) Claim(s) is/are allowed.					
4a) Of the above claim(s) is/are withdra	awn from consideration.	·			
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.					
Disposition of Claims		·			
	Ex parte Quayle, 1935	O.D. 11, 433 O.G. 213.			
<ol> <li>Since this application is in condition for allowated closed in accordance with the practice under</li> </ol>	•	•			
<ul> <li>2a) This action is FINAL.</li> <li>2b) This action is non-final.</li> <li>3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is</li> </ul>					
1) Responsive to communication(s) filed on					
_					
If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailie earned patent term adjustment. See 37 CFR 1.704(b).  Status	I will apply and will expire SIX (6) I te, cause the application to becom	MONTHS from the mailing date of this communication. te ABANDONED (35 U.S.C. § 133).			
after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a rep					
THE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CFR 1.		ov a rank ha timek filed			
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE	3 MONTH(S) FROM			
The MAILING DATE of this communication ap Period for Reply	pears on the cover shee	เ with the correspondence address			
	Saúl J. Rodríguez	3681			
Office Action Summary	Examiner	Art Unit			
	10/701,867	TAKUMORI, TORU			
	Application No.	Applicant(s)			
	(21)				

M

Art Unit: 3681

## **DETAILED ACTION**

This is a first office action on the merits of patent application S. N. 10/701,867.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

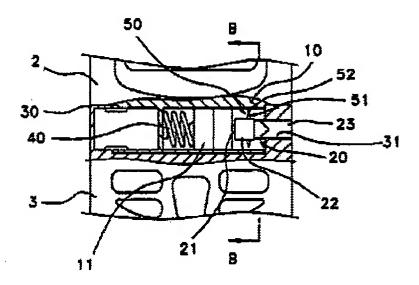
A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 6-7 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by Lim ('974).

Lim discloses an electronic opening and closing mechanism (Fig. 6) comprising first and second members (2, 3), an electrical driving means (11), a friction clutch (20, 22, 23), a concentric arrangement (Fig. 6), and sensing means (50) for stopping and reversing the direction of the driving means.

Art Unit: 3681



Claim Rejections - 35 USC § 103

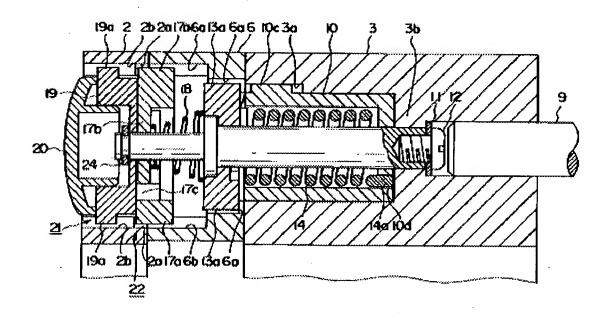
The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohtsuka et al. ('751) in view of Lim ('974).

Ohtsuka et al. discloses an opening closing mechanism comprising driving means (10, 14), a first clutch (17), a second clutch (13), an operating part (16, 19, 20), a concentrical arrangement (Fig. 3), a rotatable support (13, 18), a spring (14), recess and protrusion (2a, 2b, 17a) and first and second means for frictional engagement (2a, 2b, 17a; 10a, 13d, 14b).

Art Unit: 3681



Ohtsuka et al. does not show electrical driving means or sensor.

Lim, on the other hand, discloses an electrical opening and closing mechanism comprising means for manually/automatically opening the flip-type cellular phone, a clutch (20, 22, 23) and sensing means (50) for stopping and reversing the direction of the driving means.

Then, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use electric driving means in the device of Ohtsuka et al. in view of Lim to provide adequate torque for overcoming potentially heavy folded portions that would overwhelm a driving spring.

Also, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to use sensing means in the device of Ohtsuka et al. in view of Lim to protect the gearbox/motor assembly.

Art Unit: 3681

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ahn et al ('935), Ko ('872), Kim et al. ('849), Lee ('787), Kim et al. ('330), Lim ('564) disclose other electrical opening/closing mechanisms and/or sensing means.

Okuda ('887), Oh ('265), and Won ('727) disclose other opening/closing mechanisms comprising concentric operating means.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saúl J. Rodríguez whose telephone number is (571) 272-7097. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (571) 272-7095. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 3681

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

V111/(2001)

Primary Examiner

Art Unit 3681

SJR